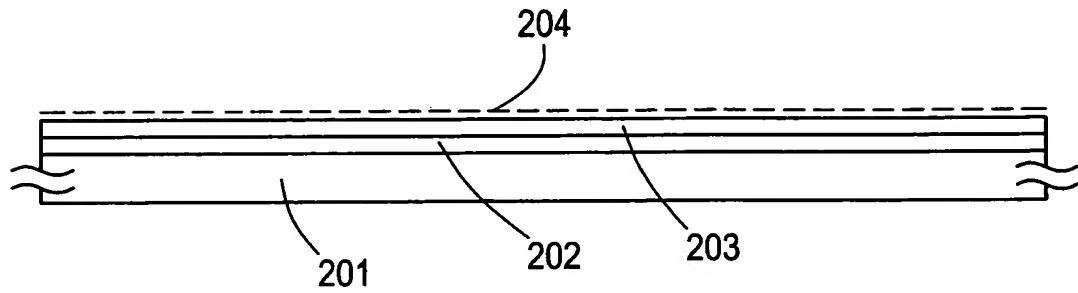


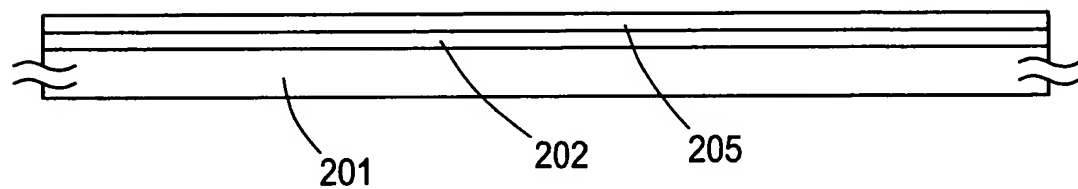
**FIG. 1A**

INTRODUCTION OF Ni ELEMENT



**FIG. 1B**

CRYSTALLIZATION BY THERMAL PROCESSING



**FIG. 1C**

FORMATION OF THERMAL OXIDE FILM



**FIG. 1D**

REMOVAL OF THERMAL OXIDE FILM

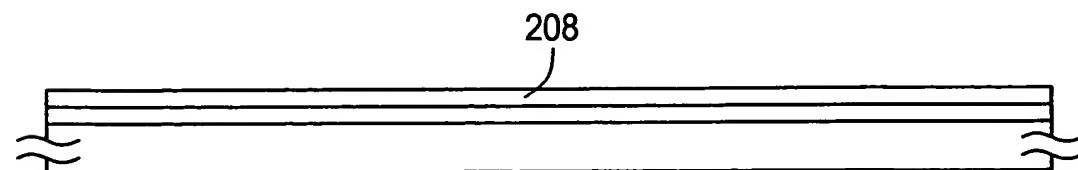


FIG. 2A

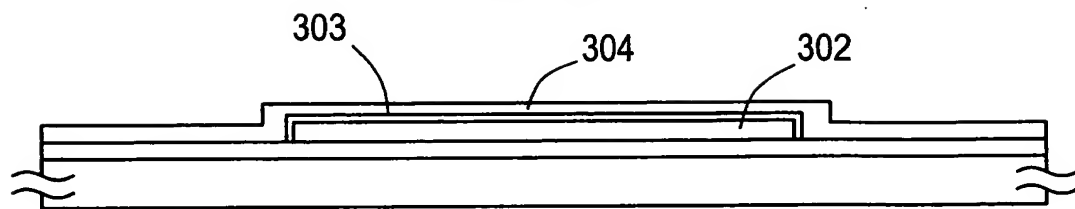


FIG. 2B

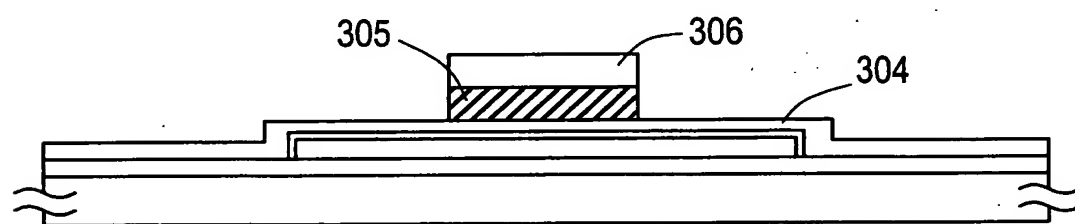


FIG. 2C

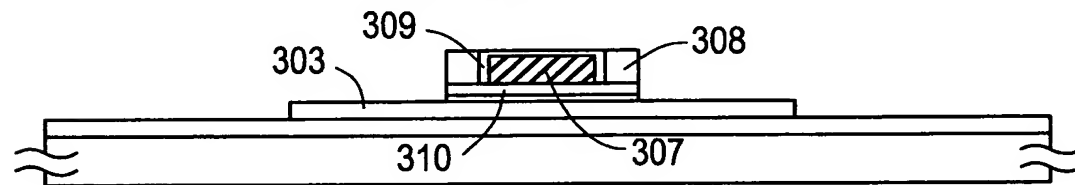


FIG. 2D

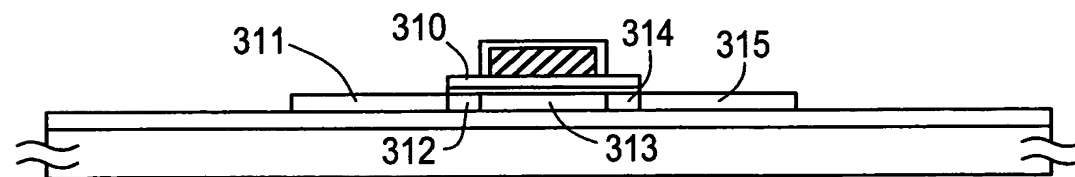


FIG. 2E

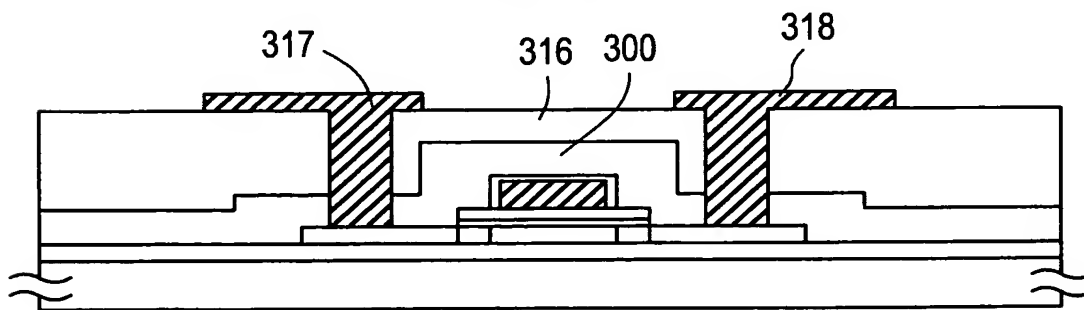


FIG. 3

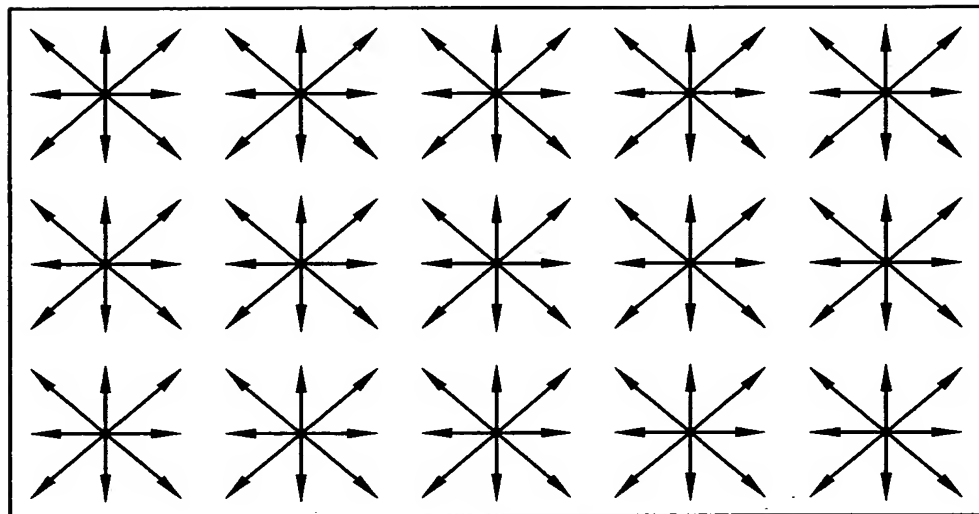


FIG. 4A

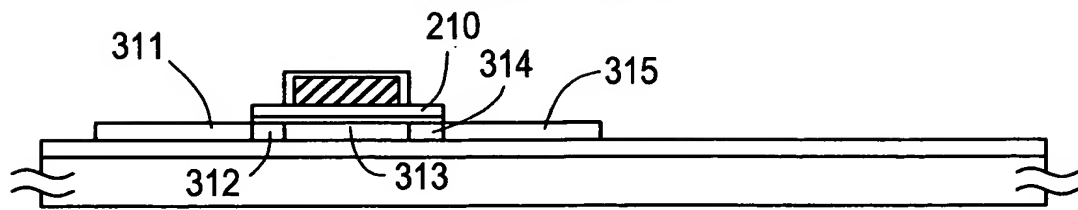


FIG. 4B

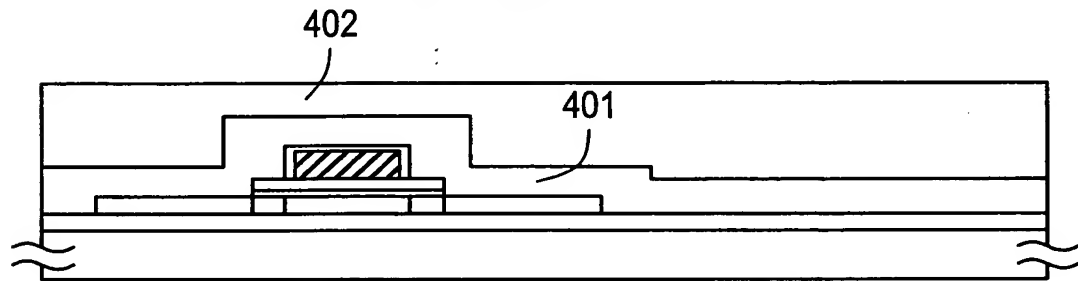


FIG. 4C

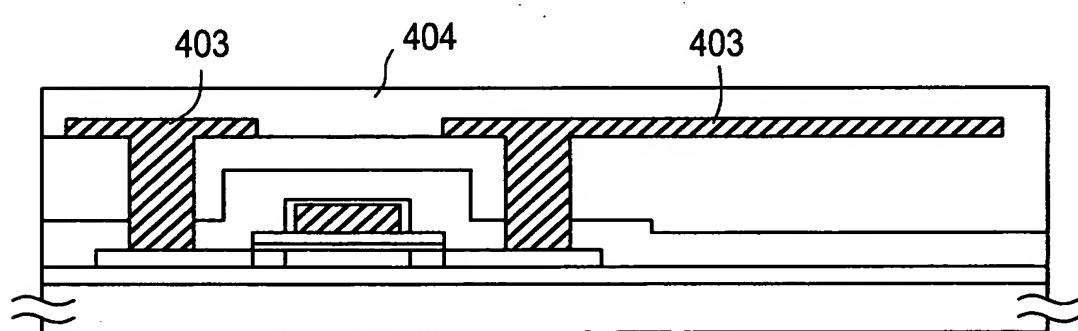


FIG. 4D

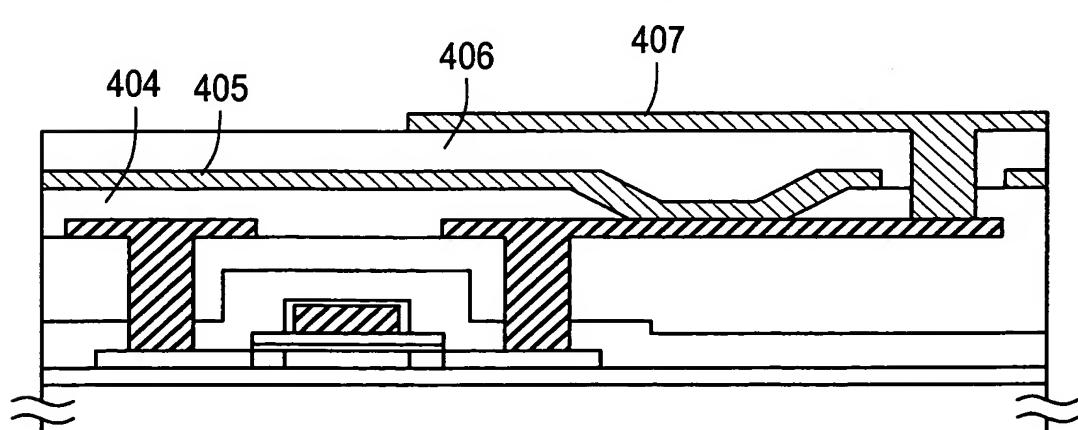


FIG. 5A

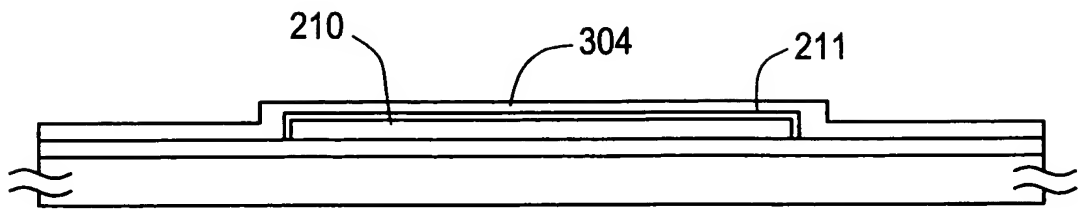


FIG. 5B

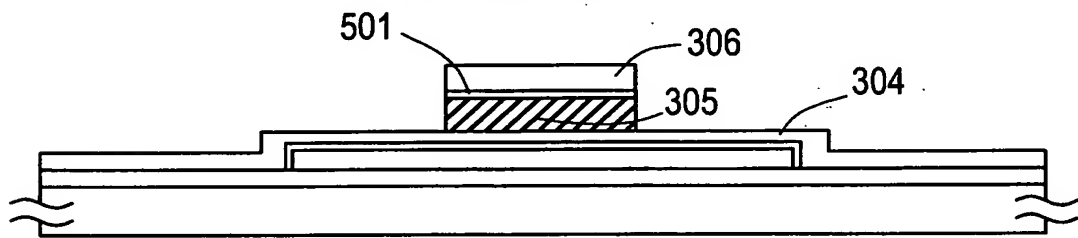


FIG. 5C

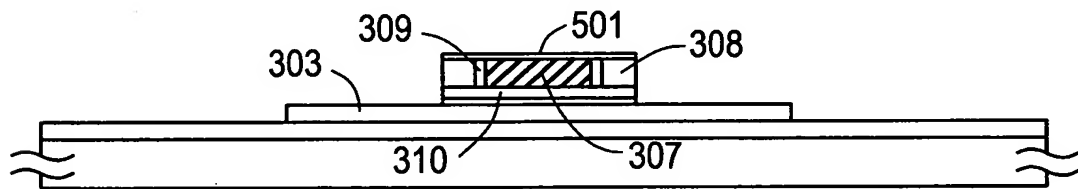


FIG. 5D

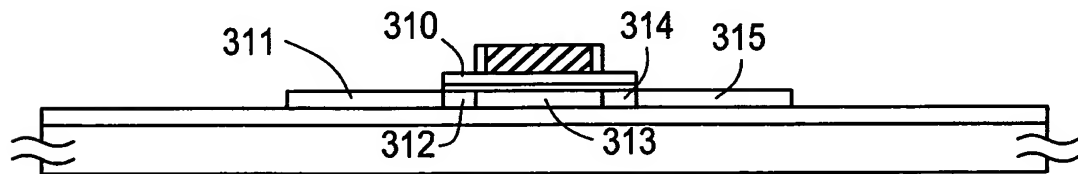


FIG. 5E

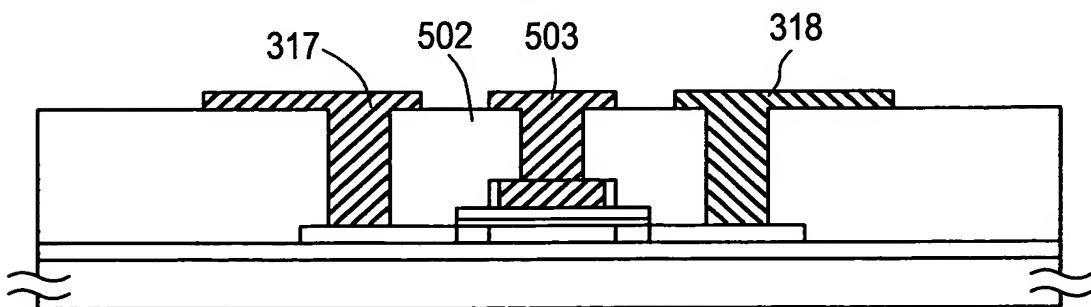
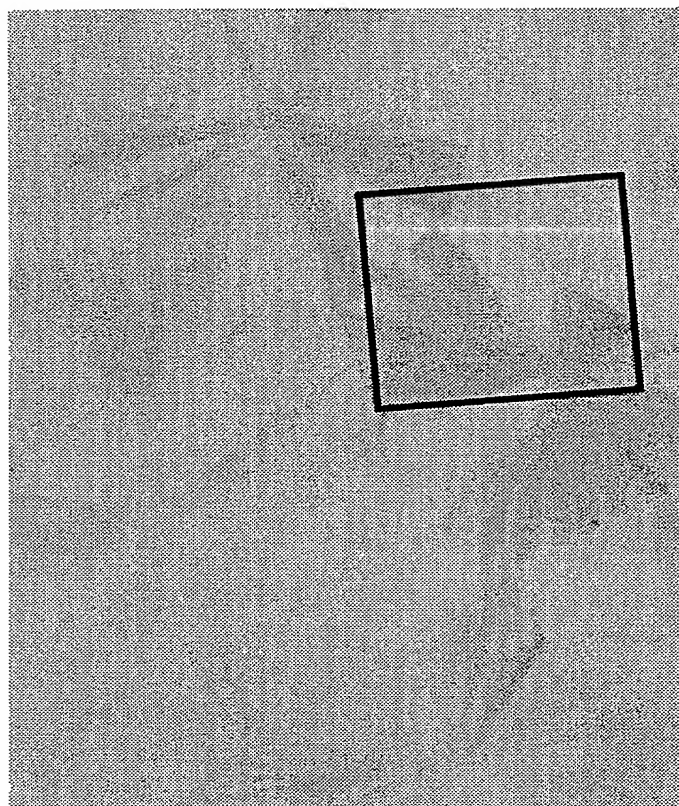


FIG. 6



100  $\mu\text{m}$

FIG. 7

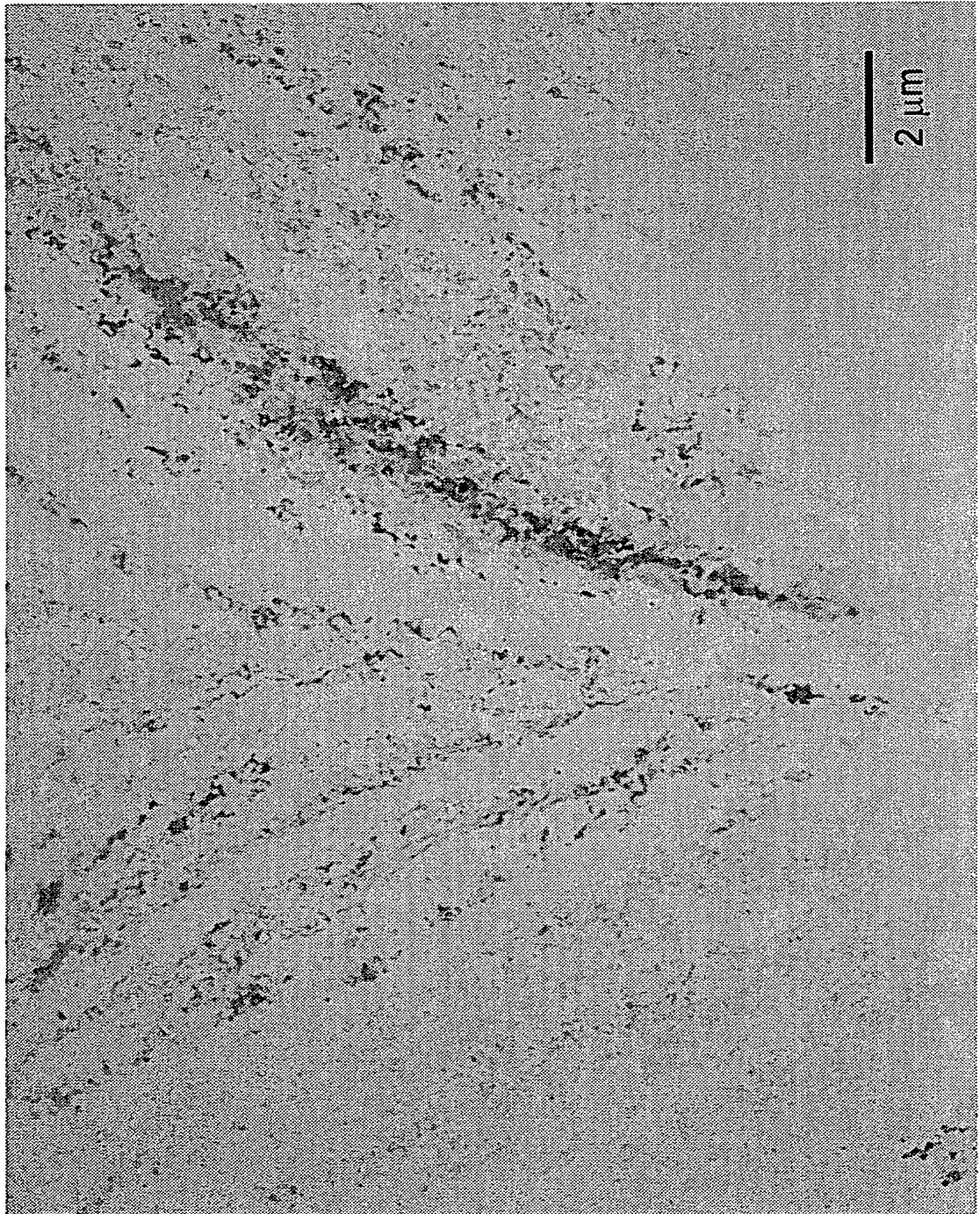
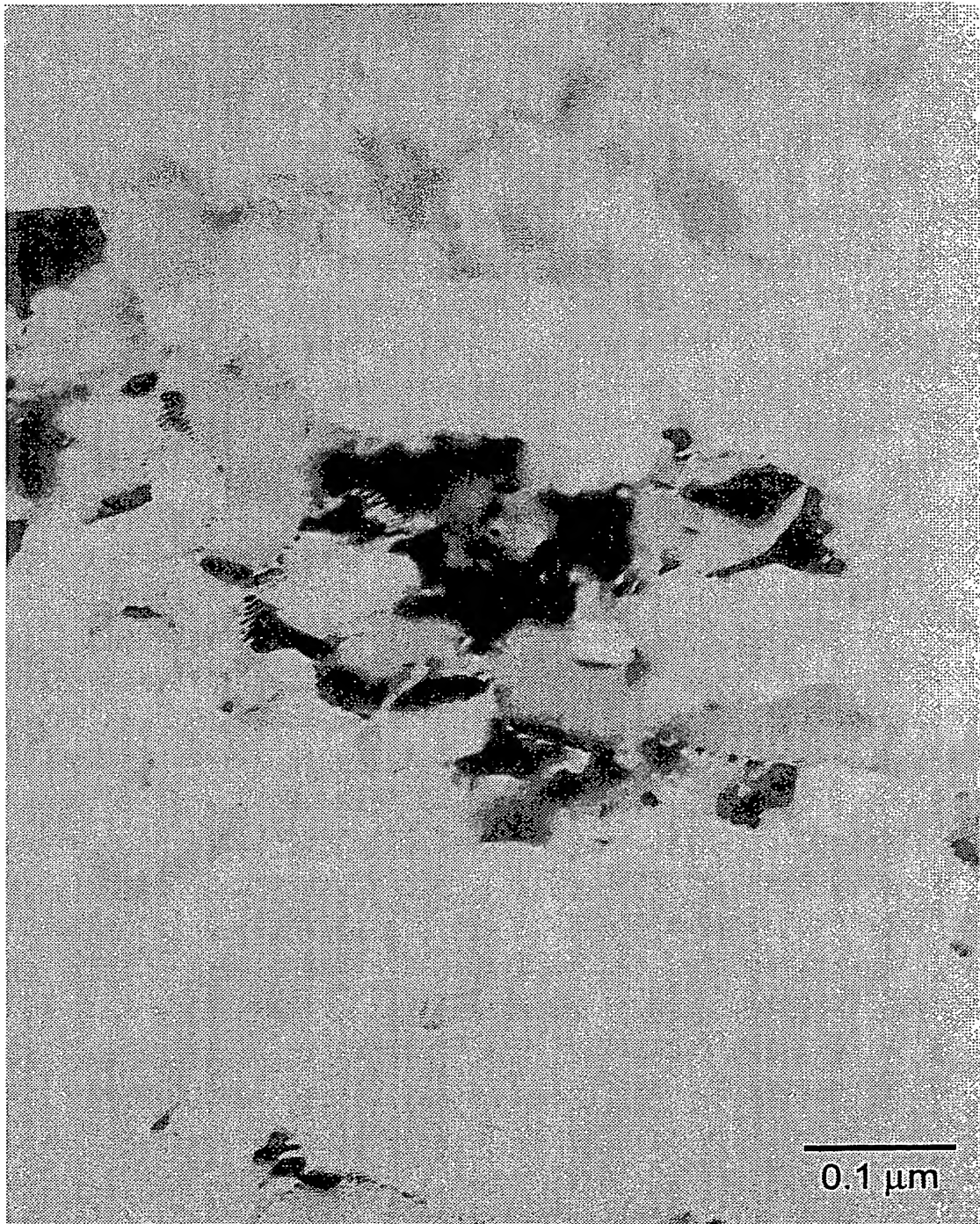




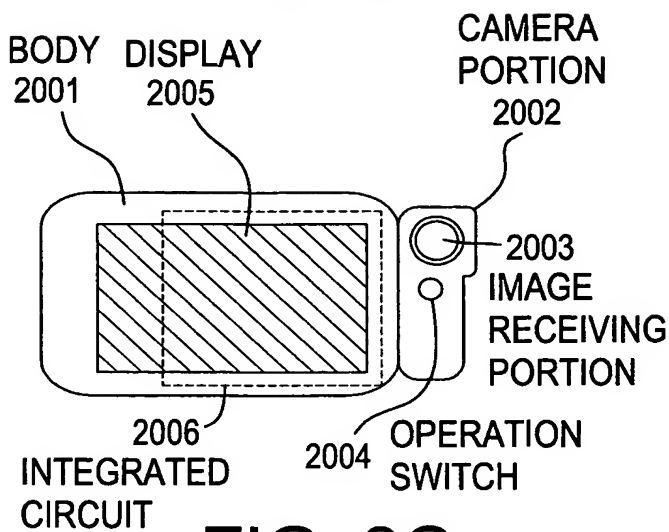
FIG. 8



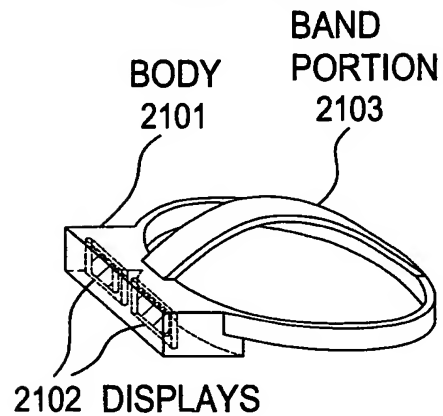
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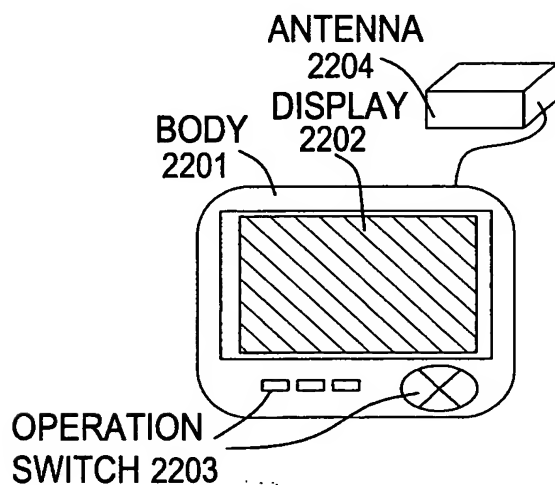
**FIG. 9A**



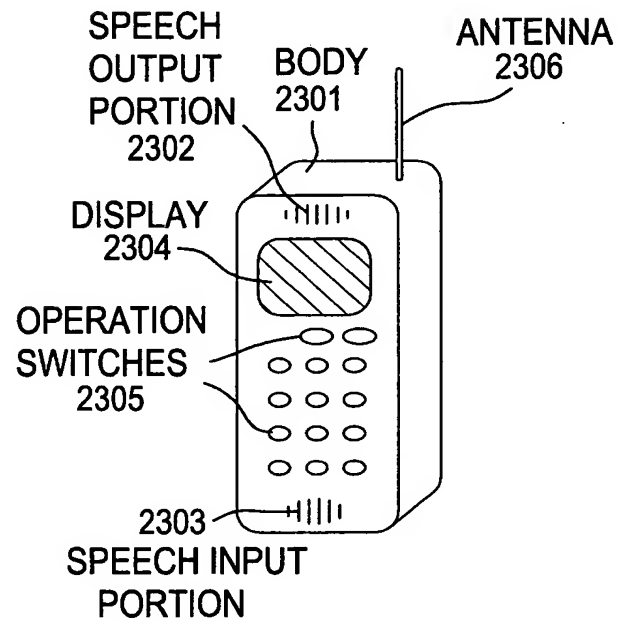
**FIG. 9B**



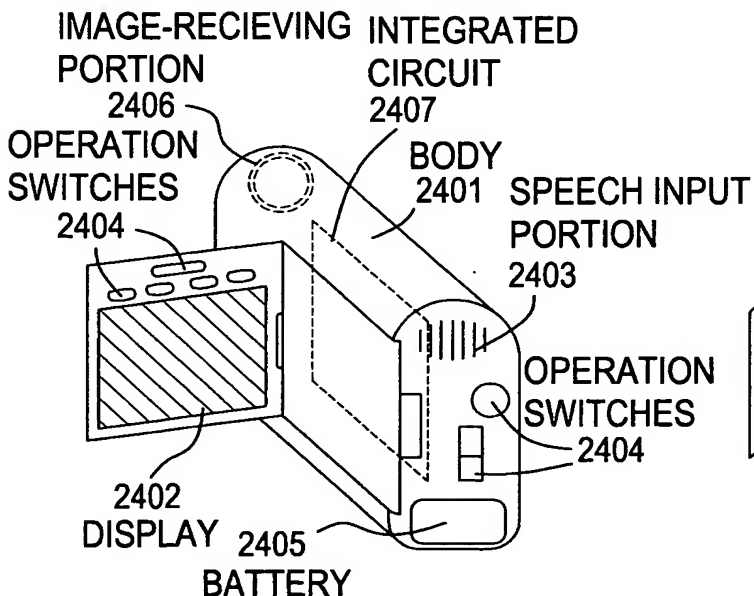
**FIG. 9C**



**FIG. 9D**



**FIG. 9E**



**FIG. 9F**

